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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/823,008	04/13/2004	Dana Eagles	930007-2166.A	4697	
20999 7.	590 01/25/2005		EXAMINER		
FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL.			WRIGHT, ANDREW D		
NEW YORK,			ART UNIT	PAPER NUMBER	
·			3617		
			DATE MAIL ED. 01/25/200		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	ı No.	Applicant(s)				
٨		10/823,008		EAGLES ET AL.				
<b>V</b>	Office Action Summary	Examiner		Art Unit				
		Andrew Wr	ight	3617				
Period fo	The MAILING DATE of this commun	nication appears on the d	over sheet with the c	orrespondence address	••			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply specified above is less than thirty (3 period for reply is specified above, the maximum si re to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no event munication. doys, a reply within the statuto tatutory period will apply and will vill, by statute, cause the applic.	t, however, may a reply be timery minimum of thirty (30) daysexpire SIX (6) MONTHS from ation to become ABANDONE	nely filed s will be considered timely. the mailing date of this communic D (35 U.S.C. § 133).	cation.			
Status								
·	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)⊠	<ul> <li>Claim(s) 29-36 and 44-51 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>Claim(s) is/are allowed.</li> <li>Claim(s) 29-31,33 and 35-51 is/are rejected.</li> <li>Claim(s) 32 and 34 is/are objected to.</li> <li>Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
Applicat	ion Papers							
10)□	The specification is objected to by the training specific on is/are Applicant may not request that any objected training sheet(s) including the oath or declaration is objected to	: a) ☐ accepted or b) ☐ ection to the drawing(s) be g the correction is required	held in abeyance. Seed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.1				
Priority (	under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim  All b) Some * c) None of:  1. Certified copies of the priority  2. Certified copies of the priority  3. Copies of the certified copies application from the Internation	documents have been documents have been of the priority documer onal Bureau (PCT Rule	received. received in Applicati its have been receive 17.2(a)).	on No ed in this National Stage	е			
2) Notice 3) Infor	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (i mation Disclosure Statement(s) (PTO-1449 of the No(s)/Mail Date	r PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

#### **DETAILED ACTION**

#### **Drawings**

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the warp and weft fibers and the taper formed by gradually eliminating warp yarn (claims 30 and 45) must be shown or the feature(s) canceled from the claim(s). Furthermore, the warp and weft fibers and the taper formed by drawing in the warp yarns (claims 31 and 46) must be shown or the feature(s) canceled from the claim(s). Furthermore, the knitted taper formed by gradually dropping knitting needles (claims 32 and 47) must be shown or the feature(s) canceled from the claim(s). Furthermore, the braided taper formed by adjusting the speed of the take up (claims 34 and 49) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement

Application/Control Number: 10/823,008 Page 3

Art Unit: 3617

Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Claim Objections

- 2. Claim 29 is objected to. Claim 29 recites "a front end and a rear end". Claim 29 subsequently recites "at least one front end or rear end". The subsequent recitation should include the word "the" or "said". Appropriate correction is required.
- 3. Claims 30-32 and 34 are objected to. Claim 30 recites "said end". A front end and a rear end have been recited, and "said end" could refer to either or both. Claims 31, 32, and 34 have similar recitations. It will be assumed for examination that these recitations refer to the tapered end. Appropriate correction is required.
- 4. Claim 44 is objected to. Claim 44 recites "a front end and a rear end". Claim 44 subsequently recites "at least one front end or rear end". The subsequent recitation should include the word "the" or "said". Appropriate correction is required.
- 5. Claims 45-47 and 49 are objected to. Claim 45 recites "said end". A front end and a rear end have been recited, and "said end" could refer to either or both. Claims 46, 47, and 49 have similar recitations. It will be assumed for examination that these recitations refer to the tapered end. Appropriate correction is required.
- 6. Claims 45, 46, 48, and 50 are objected to. The claims all recite "a ... tubular structure". A tubular structure has already been positively recited in claim 44, and subsequent positive recitations are improper. Appropriate correction is required.

Application/Control Number: 10/823,008 Page 4

Art Unit: 3617

### Claim Rejections - 35 USC § 112

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 8. Claims 30, 31, 45, and 46 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 9. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 30 recites the broad recitation "fibers or yarns", and the claim also recites "yarns" which is the narrower statement of the range/limitation. Claims 31, 45, and 46 have similar recitations and are rejected for the same reason.

Application/Control Number: 10/823,008 Page 5

Art Unit: 3617

### Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 11. Claims 44 and 51 are rejected under 35 U.S.C. 102(b) as being anticipated by Hawthorne et al. (US 2,997,973). Regarding claim 44, Hawthorne shows a vessel comprising a tubular structure (1) that is: elongate, flexible, made of fabric, impervious, and has front and rear sealed ends. The vessel comprises a pipe for filling and emptying cargo. The vessel is woven in one piece as a continuous tube. The front end (2) is tapered to a circumference that is less than the circumference of the central portion. The rear end (10) is also tapered to a circumference that is less than the circumference of the central portion. Both the front and rear ends are formed by weaving.
- 12. Regarding claim 51, both the front end and rear end are formed by weaving.

  Both the front end and rear end are tapered to respective circumferences that are less than the circumference of the central portion of the tube (1).

## Claim Rejections - 35 USC § 103

- 13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/823,008

Page 6

Art Unit: 3617

- 14. Claims 29 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hawthorne et al. (US 2,997,973). Hawthorne shows a vessel comprising a tubular structure (1) that is: elongate, flexible, made of fabric, impervious, and has front and rear sealed ends. The vessel comprises a pipe for filling and emptying cargo. The vessel is woven in one piece as a continuous tube. The front end (2) is tapered to a circumference that is less than the circumference of the central portion. The rear end (10) is also tapered to a circumference that is less than the circumference of the central portion. Both the front and rear ends are formed by weaving. Hawthorne does not explicitly disclose the recited method steps. The method steps, however, are inherent in the making and use of the Hawthorne apparatus. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to devise the recited method steps. The motivation would be to make and use the Hawthorne apparatus.
- 15. Claims 44, 45, and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hawthorne et al. (US 2,997,973) in view of Shimozono et al. (US 6,021,915). Hawthorne discloses the elements of claim 44. Hawthorne discloses weaving. Hawthorne dos not disclose warp and weft fibers or yarns. Shimozono shows a flexible fabric tubular structure for holding fluid. The tube is woven using warp and weft yarns. Such is well known and common. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify

Application/Control Number: 10/823,008

Art Unit: 3617

Hawthorne by using warp and weft yarns in the weave of the tubular structure. The motivation would be to use weaving techniques that are well known in the art.

Page 7

- 16. It is noted that the claim 45 recitation "formed by gradually eliminating ... as said end is woven" is a product by process limitation. Product-by-process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. See MPEP 2113. Hawthorne in view of Shimozono discloses the structure.
- 17. It is noted that the claim 46 recitation "formed by drawing in ... as said end is woven" is a product by process limitation. Product-by-process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. See MPEP 2113. Hawthorne in view of Shimozono discloses the structure.
- 18. Claims 33, 35, 44, and 47-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hawthorne et al. (US 2,997,973) in view of Fowler et al. (US 4,055,201). Hawthorne discloses the elements of claim 44. Hawthorne discloses weaving. Hawthorne dos not disclose knitting and braiding. Fowler shows a flexible tubular structure for holding fluids. The tubular structure is made of fabric and can be

Application/Control Number: 10/823,008

Art Unit: 3617

woven, braided; or knitted. Thus Fowler shows the equivalence of a woven, braided, or knitted fabric tubular vessel. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Hawthorne by making the tubular vessel a knitted tubular vessel or a braided tubular vessel. The motivation would be to make and use the vessel using fabrics that are well known in the art.

Page 8

- 19. It is noted that the claim 47 recitation "formed by gradually dropping ... of said end to create the taper" is a product by process limitation. Product-by-process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. See MPEP 2113. Hawthorne in view of Fowler discloses the structure.
- 20. It is noted that the claim 49 recitation "formed by adjusting the speed ... that is being braided" is a product by process limitation. Product-by-process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. See MPEP 2113. Hawthorne in view of Fowler discloses the structure.
- 21. Regarding claims 33 and 35, Hawthorne in view of Fowler, as described above, discloses a woven, or knitted, or braided tubular structure. Hawthorne in view of Fowler

Art Unit: 3617

does not explicitly disclose the recited method steps. The method steps, however, are inherent in the making and use of the modified Hawthorne apparatus. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to devise the recited method steps. The motivation would be to make and use the modified Hawthorne apparatus.

#### Allowable Subject Matter

- 22. Claims 32 and 34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 23. Claims 30 and 31 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

#### Conclusion

24. Any inquiry concerning this communication should be directed to examiner Andrew D. Wright at telephone number (703) 308-6841. The examiner can normally be reached Monday-Friday from 9:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, S. Joe Morano, can be reached at (703) 308-0230. The fax number for official communications is 703-872-9306. The fax number directly to the examiner for unofficial communications is 703-746-3548.

The examiner and his supervisor are relocating to the new Office campus in Alexandria, VA, on or around April 5, 2005. Telephone calls to the examiner and/or

Art Unit: 3617

examiner's supervisor <u>after that date</u> should be directed as follows. The examiner's new telephone will be (571) 272-6690. The examiner's fax number for unofficial communications will be (571) 273-6690. The supervisor's new telephone number will be (571) 272-6684.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew D. Wright Patent Examiner Art Unit 3617 ANDREW D. WARRENER